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(54) METHOD AND SYSTEM FOR MUSIC PROGRAM SELECTION

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patent is extended or adjusted under 35 U.S.C. 154(b) by 305 days.

This patent is subject to a terminal dis-

claimer.

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Related U.S. Application Data

- (63) Continuation of application No. 12/717,264, filed on Mar. 4, 2010, now Pat. No. 8,378,197, and a continuation-in-part of application No. 11/714,554, filed on Mar. 5, 2007, now Pat. No. 7,700,865.
- (51) Int. Cl. G10H 1/00 (2006.01) G10H 1/36 (2006.01) G05B 15/02 (2006.01)

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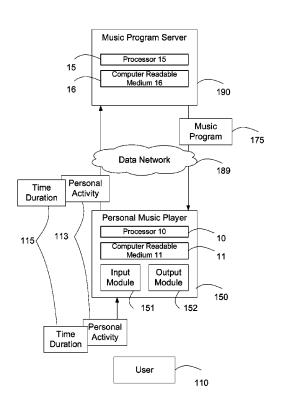
* cited by examiner

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(57) ABSTRACT

In providing a music program, a personal music player displays personal activity choices. A user selects a personal activity and provides a time duration for the activity. The player sends a request to a music program server for a music program. The request includes the personal activity and the time duration. The music program server selects a music program record from a plurality of music program records that has an activity attribute which matches the personal activity and a program duration which matches or is less than the time duration. The server extracts location information for the music program from the program entry in the music program record, and sends this to the player. The player uses the location information to obtain the music program. In this manner, a music program is provided to a user based on the personal activity of the user.

18 Claims, 7 Drawing Sheets



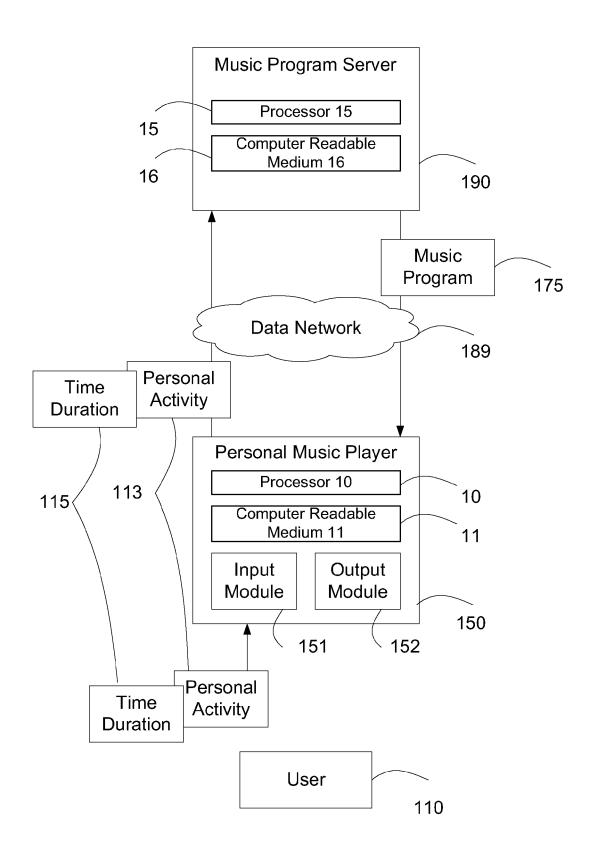


FIG. 1a

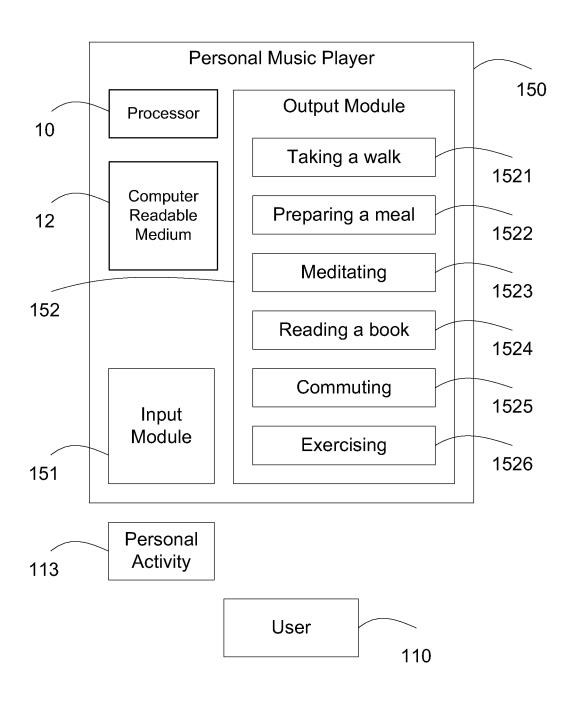


FIG. 1b

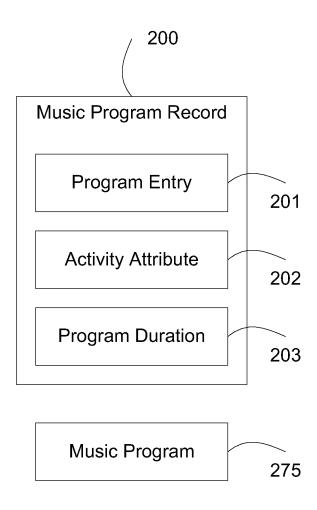


FIG. 2

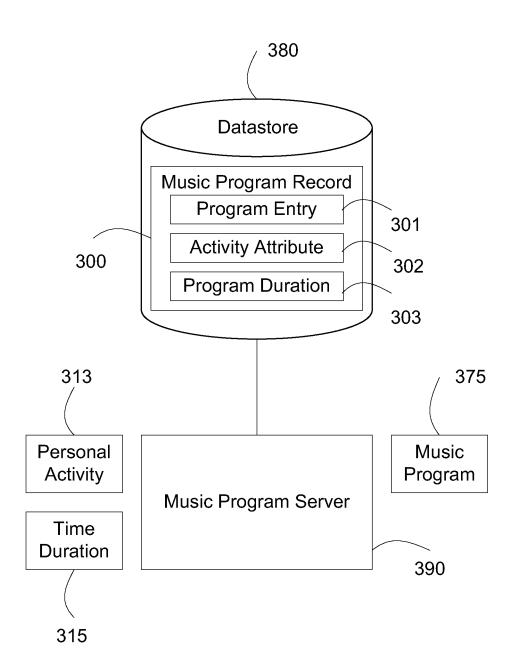


FIG. 3a

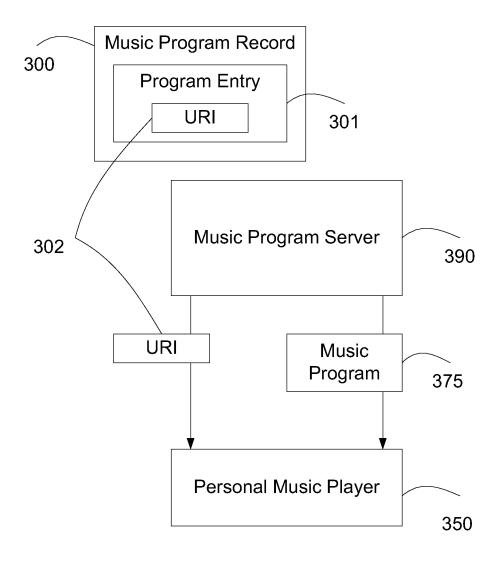


FIG. 3b

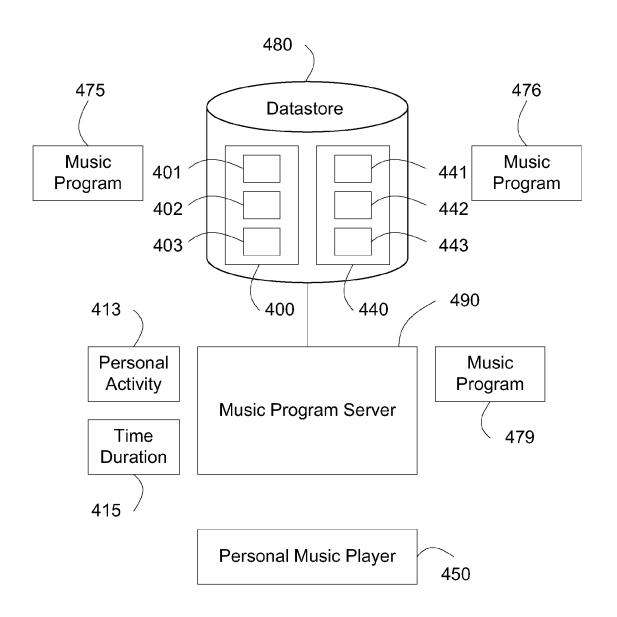


FIG. 4a

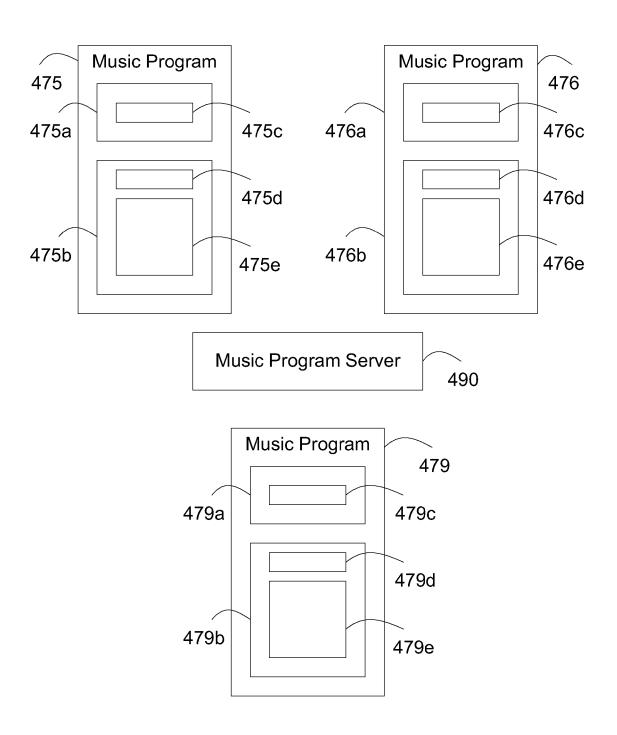


FIG. 4b

METHOD AND SYSTEM FOR MUSIC PROGRAM SELECTION

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of co-pending U.S. patent application Ser. No. 12/717,264, filed on Mar. 4, 2010, which in turn is a continuation-in-part of U.S. patent application Ser. No. 11/714,554, filed on Mar. 5, 2007, now U.S. ¹⁰ Pat. No. 7,700,865, issued on Apr. 20, 2010.

BACKGROUND OF THE INVENTION

1. Field

This invention relates generally to audio media, particularly to method and system for selecting a music program for a personal activity.

2. Related Arts

Personal music listening experience is fundamentally 20 enhanced with the introduction of MP3 players. The large storage capacity, the ease of song downloading from a network, and the sophisticated capabilities of an MP3 player provide unprecedented choices in music selection. Additionally, the prolonged play time enabled by better power utilization of a MP3 player liberates a user to undertake a wide range of personal activities while listening to music, from taking a walk in the neighborhood, cooking a meal, working out in a gym, taking a 4-hour nature hike, taking a bath, to spending a long lazy afternoon lying on a campus lawn.

Nevertheless, a user oftentimes finds the new listening experience less than satisfying.

In one example, Melinda goes to a gym for her 45-minute workout session in mid afternoon. She likes to listen to fast tempo and spirited music numbers that goes with her favorite 35 high workout intensity. Using her MP3 player, Melinda tries to find a XM satellite channel that provides the same. Unfortunately, all she can find is a slow pace religious music program.

In another example, Andy enjoys music while engaging in 40 a variety of personal activities. In order to play the kind of music that complements the activity, Andy has to spend time to put together several playlists from the vast music collection in his MP3 player. In one instant, after a long and stressful day at work, Andy wants to unwind in his sauna and listen to some 45 ambient soulful music. However, after shuffling through the directory of his music collection for 5 minutes, Andy is able to find only half a dozen songs, not quite enough to last for an hour of relaxing moment that he has in mind.

In one more example, John is taking a commuter train to 50 work in downtown New York. From his music collection in his MP3 player, he plays Simon and Garfunkel's 1981 "The Concert in Central Park" to start his day. Unfortunately, when he arrives at his office building, the concert is barely half way through. John reluctantly stops the music and greets his coworkers, feeling unsatisfied for the rest of the morning.

The above discussion demonstrates the need for a solution to provide a music program based on the personal activity of a user.

BRIEF SUMMARY OF THE INVENTION

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In providing a music program, a personal music player displays personal activity choices. A user selects a personal activity and provides a time duration for the activity. The 65 player sends a request to a music program server for a music program. The request includes the personal activity and the

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time duration. The music program server selects a music program record from a plurality of music program records that has an activity attribute which matches the personal activity and a program duration which matches or is less than the time duration. The server extracts location information for the music program from the program entry in the music program record, and sends this to the player. The player uses the location information to obtain the music program. In this manner, a music program is provided to a user based on the personal activity of the user.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE FIGURES

5 FIGS. 1a-1b illustrate a personal music player playing a music program during a personal activity.

FIG. 2 illustrates a music program record.

FIG. 3a illustrates a process to determine a music program. FIG. 3b illustrates a process to deliver a music program.

FIGS. **4***a***-4***b* illustrate a process to determine and deliver two or more music programs.

DETAILED DESCRIPTION OF THE INVENTION

As will be appreciated by one skilled in the art, aspects of the present invention may be embodied as a system, method or computer program product. Certain aspects of the present invention may take the form of a computer program product embodied in one or more computer readable medium(s) having computer readable program code embodied thereon.

Any combination of one or more computer readable medium(s) may be utilized. The computer readable medium may be a computer readable storage medium which may be, for example, but not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, or device, or any suitable combination of the foregoing. A computer readable storage medium may be any tangible medium that can contain, or store a program for use by or in connection with an instruction execution system, apparatus, or device.

Aspects of the present invention are described below with reference to block diagrams of methods, apparatus (systems) and computer program products according to embodiments of the invention. It will be understood that each block of the block diagrams, and combinations of blocks in the block diagrams, can be implemented by computer program instructions. These computer program instructions may be provided to a processor of a general purpose computer special purpose computer or other programmable data processing apparatus to produce a machine, such that the instructions, which execute via the processor of the computer or other programmable data processing apparatus, create means for implementing the functions/acts specified in the block diagram block or blocks.

FIG. 1a illustrates a personal music player playing a music program during a personal activity.

A user 110 uses a personal music player 150 to play a music program 175 while undertaking a personal activity 113 for time duration 115.

Music program 175 is encoded in an audio digital format, such as Moving Picture Experts Group 1 (MPEG-1 Level-3) also known as MP3, Windows Media Audio (WMA), Advanced Audio Coding (AAC), Apple Lossless Audio Codec (ALAC) Pulse Code Modulation (PCM), or Adaptive PCM (ADPCM) digital format.

In one embodiment, music program 175 is a recorded music program presented by a host, such as the weekly radio

program "MusicDeli" produced by the ABC Radio National, "Jazztrack with Mal Stanley", or "Blueprint" hosted by Kevin Lincoln. In one embodiment, music program is a movie soundtrack such as Disney's "Chicken Little", "Rocky Honor Picture Show" produced by John Goldstone, James Stewart's 5 classic "It's A Wonderful Life", or Kander and Ebb's musical "Chicago". In one embodiment, music program 175 is a recorded concert performance such as Simon and Garfunkel's 1981 "The Concert in Central Park", Elvis Presley's last live performance at Market Square Arena on Jul. 16, 10 1977, and Peter, Paul & Mary' 1988 reunion special "A Holiday Concert" produced by Public Broadcasting Service (PBS).

In one embodiment, music program 175 includes a song, such as John Lennon's "When I'm Sixty Four", Jennifer 15 Lopez's "Let's Get Loud", Bob Dylan's "Times They Are A-changing", or Paul Simon and Art Garfunkel's "The Boxer" performed in New York City's Central Park in September 1981. In one embodiment, music program 175 includes an instrumental, such as Kenny G's "Forever In 20 Love", Chopin's "Concerto in F Minor" or Pink Floyd's "Comfortably Numb" performed by David Gilmour. In one embodiment, music program 175 includes comment or annotation by the host about an included song or instrumental, such as the background of the composer or performer, the 25 occasion of the performance, or the musical characteristics. In one embodiment, the comment or annotation is before, after, or during an included song or instrumental.

Personal music player **150** is a mobile audio device for personal music listening. In one embodiment, user **110** carries personal music player **150** in a shirt pocket, a purse or a backpack. In one embodiment, user **110** wears personal music player **150** in an armband. In one embodiment, user **110** wears personal music player **150** as part of a headset. Personal music player **150** is capable of playing music program **175**.

In one embodiment, personal activity 113 is taking a walk during a break. In one embodiment, personal activity 113 is cooking a dinner. In one embodiment, personal activity 113 is a work out session in a gym. In one embodiment, personal 40 activity 113 is a meditating session after work. In one embodiment, personal activity 113 is morning commuting to work. In one embodiment, personal activity 113 is studying in a library after school. In one embodiment, personal activity 113 is reading before bedtime, knitting after supper, taking a 45 shower, taking a bath, gardening, a 5-mile jog, or doing nothing for an hour.

In one embodiment, time duration 115 of personal activity 113 is 40 minutes, 45 minutes, 2 hours, or 10 minutes.

Music program 175 lasts for a period of time close to time 50 duration 115. In one embodiment, music program 175 lasts for 15 minutes, 42 minutes, 60 minutes, 20 minutes or 4 minutes 32 seconds.

Personal music player **150** includes a processor **10** and a computer readable medium **16**. The computer readable 55 medium stores computer readable program code for implementing the method of the present invention.

Personal music player **150** includes output module **152** for playing music program **175**. In one embodiment, output module **152** includes a wired headset. In one embodiment, output 60 module **152** includes a wireless headset, such as a Bluetooth headset. In one embodiment, the wireless headset is based on other technologies such as Wi-Fi, Wibree, ZigBee or Frequency Modulation (FM) technology. In one embodiment, output module **152** includes a speaker.

Personal music player 150 includes input module 151 for user 110 to enter information about personal activity 113 and

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time duration 115. In one embodiment, input module 151 includes a touch wheel, a touchscreen, a keypad, a keyboard or a stylus. In one embodiment, input module 151 includes a microphone and speech recognition capabilities.

In one embodiment, user 110 uses input module 151 to enter a phrase such as "weight lifting workout session" or "reading a book". Personal music player 150 determines personal activity 113 based on the entered information. In one more embodiment, user 110 speaks the phrase at the microphone in input module 151.

In one embodiment, output module 152 includes a graphical display. Personal music player 150 displays a plurality of personal activity choices at output module 152, allowing user 110 to select personal activity 113 from the list of choices using input module 151. In one example, as illustrated in FIG. 1b, personal music player 150 displays personal activity choices of "taking a walk" 1521, "preparing a meal" 1522, "meditating" 1523, "reading a book" 1524", commuting "1525" and "exercising" 1526. User 110 uses input module 151 to select one of the choices as personal activity 113. In one embodiment, user 110 uses the stylus in input module 151 to select one of the choices.

In one embodiment, personal music player 150 displays a plurality of time duration choices at output module 152, allowing user 110 to select time duration 115 from the list of choices. In one example, personal music player 150 displays time duration choices of "25 minutes", "45 minutes", "1 hour", and "1 hour 20 minutes". User 110 uses input module 151 to select one of the choices as time duration 115.

In one embodiment, user 110 uses input module 151 to enter a time, such as "43 min" or "1 hour 10 minutes". Personal music player 150 determines time duration 115 based on the entered information.

Personal music player 150 connects to a music program server 190. In one embodiment, personal music player 150 connects to music program service 190 over a data network 189. In one embodiment, personal music player 150 includes music program server 190.

The music program server 190 includes a processor 15 and a computer readable medium 16. The computer readable medium 16 stores computer readable program code for implementing the method of the present invention.

In one embodiment, data network 189 includes the Internet. In one embodiment, data network 189 includes an Internet service provider network. In one embodiment, data network 189 includes a broadband network based on Digital Subscriber Line (DSL) or cable modem technology. In one embodiment, data network 189 includes a cellular based data network such as General Packet Radio Service (GPRS) network, CDMA2000 network, Wideband Code Division Multiple Access (W-CDMA) network, or third-generation (3G) network. In one embodiment, data network 189 includes a private network of a business entity, such as a fitness center, a hotel, a café, or an airport. In one embodiment, data network 189 includes a home network. In one embodiment, data network 189 includes a hotspot WiFi network.

Personal music player 150 requests music program server 190 for a music program. Personal music player 150 provides personal activity 113 and time duration 115 to music program server 190. In one embodiment, personal music player 150 provides personal activity 113 and time duration 115 using a Hypertext Transfer Protocol (HTTP) message. In one embodiment, personal music player 150 provides personal activity 113 and time duration 115 in a Remote Method Innovation (RMI) message. In one embodiment, personal music player 150 provides personal activity 113 and time duration 115 over an Application Programming Interface (API).

Music program server 190 determines music program 175 based on personal activity 113 and time period 115. Music program server 190 sends information for music program 175 to personal music player 150. In one embodiment, music program server 190 sends music program 175 to personal 5 music player 150.

FIG. 2 illustrates a music program record.

A music program record 200 includes a program entry 201, an activity attribute 202, and a program duration 203.

Program entry **201** includes location information for obtaining music program **275**. In one embodiment, the location information is a Web Universal Resource Identifier (URI), such as http://www.musicprogram.com/softrock/musicdeli/4352.mp3. In one embodiment, the location information includes an URI based on Real Time Streaming Protocol (RTSP), such as rtsp://emusic.com/8997A9Y82.sdp. In one embodiment, the location information is a file name.

Activity attribute **202** indicates a personal activity, such a "taking a walk", "cooking", "commuting", "taking a bath" or 20 "jogging".

Program duration 203 is a time period of music program 275 such as 45 minutes, 60 minutes or 22 minutes.

FIG. 3*a* illustrates a process to determine a music program. Music program server **390** determines music program **375** 25 based on personal activity **313** and time duration **315**.

Music program server 390 connects to a datastore 380. Datastore 380 stores a plurality of music program records that includes music program record 300. In one embodiment, datastore 380 includes a hard disk, a flash memory. In one embodiment, datastore 380 includes a database. In one embodiment, music program server 390 includes datastore 380.

Music program record 300 includes program entry 301, activity attribute 302 and program duration 303.

Music program server 390 selects music program record 300 wherein activity attribute 302 matches personal activity 313, and program duration 303 matches time duration 315.

In one embodiment, music program server **390** determines 40 that activity attribute **302** matches personal activity **313** if activity attribute **302** relates to personal activity **313**. In one example, activity attribute **302** includes "cooking" and personal activity **313** is "cooking a dinner". In one example, activity attribute **302** is a synonym related to personal activity 45 **313**. For example, activity attribute **302** is "making a sandwich", "preparing a meal", or "home cooking".

In one embodiment, music program server 390 determines that program duration 303 matches time duration 315 if program duration 303 is smaller than time duration 315. In one example, program duration 303 is 42 minutes and time duration 315 is 50 minutes. In another embodiment, music program server 390 determines that program duration 303 matches time duration 315 if the difference between program duration 303 and time duration 315 is less than a pre-determined value, such as 3 minutes, 5 minutes, or 6 minutes. In one example, program duration 303 is 63 minutes and time duration 315 is 60 minutes. In one embodiment, music program server 390 determines that program duration 303 matches time duration 315 if the difference between program duration 303 and time duration 315 is within 10%, 15%, or 20% of time duration 315.

FIG. 3b illustrates a process to deliver a music program. Music program server 390 extracts location information for music program 375 from program entry 301. Music program server 390 sends the location information to personal music player 350.

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In one embodiment, the location information is URI 302. Music program server 390 sends URI 302 to personal music player 350. Personal music player 350 uses URI 302 to obtain music program 375.

In one embodiment, URI 302 is an RTSP-based URI. Personal music player 350 uses the RTSP-based URI to stream music program 375 from music program server 390. In one embodiment, personal music player 350 streams music program 375 from a different server. Personal music player 350 plays music program 375 while streaming music program 375

In one embodiment, URI 302 is an FTP-based URI. Personal music player 350 uses the FTP-based URI to obtain music program 375 in the form of an audio file, such as an MP3 file, a WMA file, and AAC file, an Audio Video Interleave (AVI) file, or a Waveform (WAV) file. In one embodiment, personal music player 350 plays music program 375 after obtaining music program 375 in the entirety.

In one embodiment, personal music player 350 includes a storage. The storage stores music program 375. In one embodiment, the storage is a flash drive, a hard disk drive, or a removable memory based on Universal Serial Bus (USB) or Secure Digital Card technology. In one embodiment, program entry 301 includes a title for music program 375. Music program server 390 sends music program 375 title to personal music player 350. Personal music player 350 retrieves music program 375 from the storage based on music program 375 title.

FIG. 4a illustrates a process to determine and deliver two or more music programs.

Music program server 490 determines music program 479 based on personal activity 413 and time duration 415. Music program 479 includes a plurality of two or more music programs.

In one embodiment, music program 479 includes music program 475 and music program 476. In one embodiment, music program server 490 connects to datastore 480, and datastore 480 includes music program records 400 and 440. Music program record 400 includes program entry 401, activity attribute 402 and program duration 403. Music program record 440 includes program entry 441, activity attribute 442 and program duration 443. Program entry 401 includes location information for music program 475 and program entry 441 includes location information for music program 476.

Music program server 490 selects music program records 400 and 440 wherein both activity attributes 402 and 442 match personal activity 413, and wherein the sum of program durations 403 and 443 match time duration 415. In one embodiment, the sum of program durations 403 and 443 matches time duration 415 if the sum is shorter than time duration 415. In another embodiment, the sum matches time duration 415 if the difference between the sum and time duration 415 is less than a pre-determined value; or if the difference between the sum and time duration 415 is within 10%, 15%, or 20% of time duration 415.

In one embodiment, music program server 490 extracts first location information for music program 475 from program entry 401 and extracts second location information for music program 476 from program entry 441. Music program 479 includes the first location information and the second location information.

In one embodiment, music program 479 is a Hypertext Markup Language (HTML) file that includes the first location information and the second location information. Music program server 490 generates music program 479, and sends music program 479 to personal music player 450. Personal music player 450 uses the first location information to obtain

music program 475 and the second location information to obtain music program 476. In one embodiment, personal music player 450 plays music program 476 after playing music program 475.

In a different embodiment, music program server **490** generates music program **479** by combining music programs **475** and **476**. Music program server **490** sends location information for music program **479** as described in FIG. **3***b*.

In one embodiment, music programs 475 and 476 are audio files in a common audio digital format, such as Waveform 10 Audio format (WAV) files with audio data encoded in uncompressed 16-bit mono Pulse Code Modulation (PCM) format at a sample rate of 44,100. As illustrated in FIG. 4b, music program 475 includes header 475a and data chunk 475b. Header 475a includes chunk size 475c and audio data format 15 information. Data chunk 475b includes data chunk size 475d and audio data 475e. Likewise, music program 476 includes header 476a, chunk size 476c, data chunk 476b, data chunk size 476d and audio data 476e.

Music program server **490** combines data chunk **475***b* and 20 data chunk **476***b* into data chunk **479***b* of music program **479**. Music program server **490** stores audio data **475***e* into audio data **479***e* of music program **479**, and then appends audio data **476***e* to audio data **479***e*. Music program server **490** computes data chunk size **479***d* of music program **479** as the sum of data 25 chunk size **475***d* and data chunk Size **476***d*.

Header 475*a* and header 476*a* are similar with a possible difference in chunk size 475*c* and chunk size 476*c*. Music program server 490 copies header 475*a* into header 479*a* of music program 479, and computes chunk size 479*c* of music program server 490 computes chunk size 479*c* as the file size of music program 479. In another embodiment, Music program server 490 computes chunk size 479*c* as the file size of music program 479 starting after the location of chunk size 479*c* in the file.

In one embodiment, music program server **490** inserts a plurality of audio data before appending audio data **476***e* in **479***e* of music program **479**. In one embodiment, the inserted audio data represents silence for a period of time, such as 3 seconds, 5 seconds, or 22 milli-seconds. In one embodiment, 40 the inserted audio data include a music interlude. Music program server **490** computes data chunk size **479***d* and chunk size **479***c* accordingly.

In one embodiment, the audio digital formats of music programs 475 and 476 are different; music program server 45 490 converts music programs 475 and 476 to a common audio digital format before generating music program 479.

In one embodiment, a personal activity 113 is described using a phrase such as "taking a walk". In another embodiment, personal activity 113 is described with an event name 50 such as "Rock Concert", "Town Hall Meeting", "Monday Night Football", where user 110 may attend. In one embodiment, personal activity 113 is a common activity user 110 does normally such as "going to the mall", "driving to work", "doing lunch". In one embodiment, personal activity 113 is 55 characterized with a plurality of words describing or suggesting an activity user 110 participates in or may participate in the future. Personal activity 113 differs or is separate from the listening activity of the music program 175, the usage of the media player 150 that leads to the listening activity, and/or the 60 user's interaction with the data that make up the music program(s). Typically, user 110 participates in the personal activity 113 while user 110 enjoys listening to the music program 175. Further examples of personal activity 113 include sports activities or sport events; commuting activities such as driv- 65 ing to work, taking a train, commuting on a bus, or commuting in a car; reading activities such as reading a book, reading

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the news, reading a magazine, or reading a cooking recipe; shopping activities such as shopping in a mall, shopping in a store, or on-line shopping; watching activities such as watching television, watching a slide show, watching pictures, or watching kids play in a playground; dining activities such as lunch, breakfast, or dinner; home or personal chores such as doing laundry, cooking, painting, house cleaning, or gardening; leisure activities such as fishing, golfing, hiking, sun tanning on a beach, or playing a video game.

In one embodiment, a reading activity includes a subject matter or a title, for example, the reading activity is "reading the New York Times", "reading Harry Potter", or "reading a history book".

In one embodiment, a sports activity or sporting event includes "watching a sporting event" or a type of sport such as "football", "soccer", "fishing", or "basketball".

In one embodiment, the personal music player 150 sends a request to the music program server 190 for a music program. The request includes a commuting activity, a sports activity, or a reading activity. The music program server 190 determines music program 175 based on the commuting activity, the sports activity, or the reading activity in the request, as described above with reference to FIGS. 3a and 4a. The music program server 190 then sends the music program 175, or the combined music program 479, to the personal music player 150 as described above with reference to FIG. 3b.

In one embodiment, personal music player 150 is a portable MP3 music player, a mobile phone that includes a music player, an electronic reading device with music playing capabilities, an Internet radio, an in-car networked audio system, and Internet audio system, or a networked home entertainment system. In one embodiment, personal music player 150 is a networked computing device such as a personal computer, a notebook, a mini-notebook, or a personal digital assistant. In one embodiment, the networked computing device includes a program or software that plays music program 175.

In one embodiment, music program server 190 is a computer server communicating with personal music player 150. A typical computer server includes a computing processor unit, main memory, storage and a network interface. In one embodiment, a computer server is a computing system comprising a plurality of computer servers and a plurality of storage devices operatively coupled to each other over a network. In one embodiment, a computer server is a part of the computing system. In one embodiment, music program server 190 is a computing device such as a home media center, a personal computer, a notebook, an MP3 player, or a home entertainment system.

Foregoing described embodiments of the invention are provided as illustrations and descriptions. They are not intended to limit the invention to precise form described. In particular, it is contemplated that functional implementation of invention described herein may be implemented equivalently in hardware, software, firmware, and/or other available functional components or building blocks, and that networks may be wired, wireless, or a combination of wired and wireless. Other variations and embodiments are possible in light of above teachings, and it is thus intended that the scope of invention not be limited by this Detailed Description, but rather by Claims following.

What is claimed is:

- 1. A method for providing a music program, comprising:
- (a) receiving a request for the music program by a music program server, the request comprising a choice selected by a user from a list of choices associated with the music program;

- (b) in response to receiving the request, selecting at least a first music program and a second music program by the music program server, wherein attributes of the first and second music programs comprise the selected choice; and
- (c) combining the first music program and the second music program into a separate combined music program by the music program server, wherein the first music program comprises a first header comprising a first chunk size and a first audio data format information, and a first data chunk comprising a first data chunk size and a first audio data,
 - wherein the second music program comprises a second header comprising a second chunk size and a second audio data format information, and a second data chunk comprising a second data chunk size and a second audio data, wherein the combining comprises:
 - (c1) combining the first data chunk and the second data chunk into a data chunk of the combined music program;
 - (c2) storing the first audio data into an audio data of the combined music program and appending the second audio data to the audio data of the combined music program; and
 - (c3) computing a combined data chunk size of the combined music program as a sum of the first data chunk size and the second data chunk size.
- 2. The method of claim 1, further comprising:
- (d) sending location information for the combined music 30 program to a music player, wherein the music player obtains the combined music program using the location information.
- 3. The method of claim 1, wherein the selected choice comprises a program time duration, wherein the selecting (b) 35 comprises:
 - (b1) selecting at least the first music program and the second music program, wherein a sum of program time durations of the first and second music programs is equal to or less than a time duration in the request.
 - 4. The method of claim 1, further comprising:
 - (a1) presenting to the user of a music player the list of choices associated with the music program;
 - (a2) receiving the selected choice from the user by the music player; and
 - (a3) sending the request for the music program to the music program server, the request comprising the selected choice.
- 5. The method of claim 1, wherein the list of choices is related to activities which the user engages in, comprising one 50 or more of the following: sports; shopping; commuting; and leisure.
- **6.** The method of claim **1**, wherein the list of choices is related to places where the user may be located, comprising one or more of the following: a shop; a car; a bus; a train; and 55 a gym.
- 7. A non-transitory computer readable storage medium with program instructions for providing a music program, wherein when the program instructions are executed by a computer, causes the computer to:
 - (a) receive a request for the music program, the request comprising a choice selected by a user from a list of choices associated with the music program;
 - (b) in response to receiving the request, selects at least a first music program and a second music program, 65 wherein attributes of the first and second music programs comprise the selected choice; and

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- (c) combines the first music program and the second music program into a separate combined music program, wherein the first music program comprises a first header comprising a first chunk size and a first audio data format information, and a first data chunk comprising a first data chunk size and a first audio data,
 - wherein the second music program comprises a second header comprising a second chunk size and a second audio data format information, and a second data chunk comprising a second data chunk size and a second audio data, wherein the combines comprises:
 - (c1) combines the first data chunk and the second data chunk into a data chunk of the combined music program;
 - (c2) stores the first audio data into an audio data of the combined music program and appending the second audio data to the audio data of the combined music program; and
 - (c3) computes a combined data chunk size of the combined music program as a sum of the first data chunk size and the second data chunk size.
- **8**. The medium of claim **7**, further comprising:
- (d) sends location information for the combined music program to a music player, wherein the music player obtains the combined music program using the location information.
- **9**. The medium of claim **7**, wherein the selected choice comprises a program time duration, wherein the selects (b) comprises:
 - (b1) selects at least the first music program and the second music program, wherein a sum of program time durations of the first and second music programs is equal to or less than a time duration in the request.
 - 10. The medium of claim 7, further comprises:
 - (a1) presents to the user of a music player the list of choices associated with the music program;
 - (a2) receives the selected choice from the user by the music player; and
 - (a3) sends the request for the music program to the music program server, the request comprising the selected choice
- 11. The medium of claim 7, wherein the list of choices is related to activities which the user engages in, comprising one or more of the following: sports; shopping; commuting; and leisure
- 12. The medium of claim 7, wherein the list of choices is related to places where the user may be located, comprising one or more of the following: a shop; a car; a bus; a train; and a gym.
 - 13. A system, comprising:

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- a music program server, wherein the music program server: receives a request for a music program, the request comprising a choice selected by a user from a list of choices associated with the music program;
 - in response to receiving the request, selects at least a first music program and a second music program, wherein attributes of the first and second music programs comprise the selected choice; and
 - combines the first music program and the second music program into a separate combined music program, wherein the first music program comprises a first header comprising a first chunk size and a first audio data format information, and a first data chunk comprising a first data chunk size and a first audio data,
 - wherein the second music program comprises a second header comprising a second chunk size and a second audio data format information, and a second data

chunk comprising a second data chunk size and a second audio data, wherein the combines comprises: combines the first data chunk and the second data chunk into a data chunk of the combined music program;

stores the first audio data into an audio data of the combined music program and appending the second audio data to the audio data of the combined music program; and

computes a combined data chunk size of the combined music program as a sum of the first data chunk size and the second data chunk size.

- 14. The system of claim 13, further comprising a music player, wherein the music program server further sends location information for the combined music program to the music player, wherein the music player obtains the combined music program using the location information.
- 15. The system of claim 13, wherein the selected choice comprises a program time duration, wherein the music program server:

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selects at least the first music program and the second music program, wherein a sum of program time durations of the first and second music programs is equal to or less than a time duration in the request.

16. The system of claim **13**, further comprising a music player, wherein the music player:

presents to the user of the music player the list of choices associated with the music program;

receives the selected choice from the user; and

sends the request for the music program to the music program server, the request comprising the selected choice.

17. The system of claim 13, wherein the list of choices is related to activities which the user engages in, comprising one or more of the following: sports; shopping; commuting; and leisure.

18. The system of claim 13, wherein the list of choices is related to places where the user may be located, comprising one or more of the following: a shop; a car; a bus; a train; and a gym.

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